

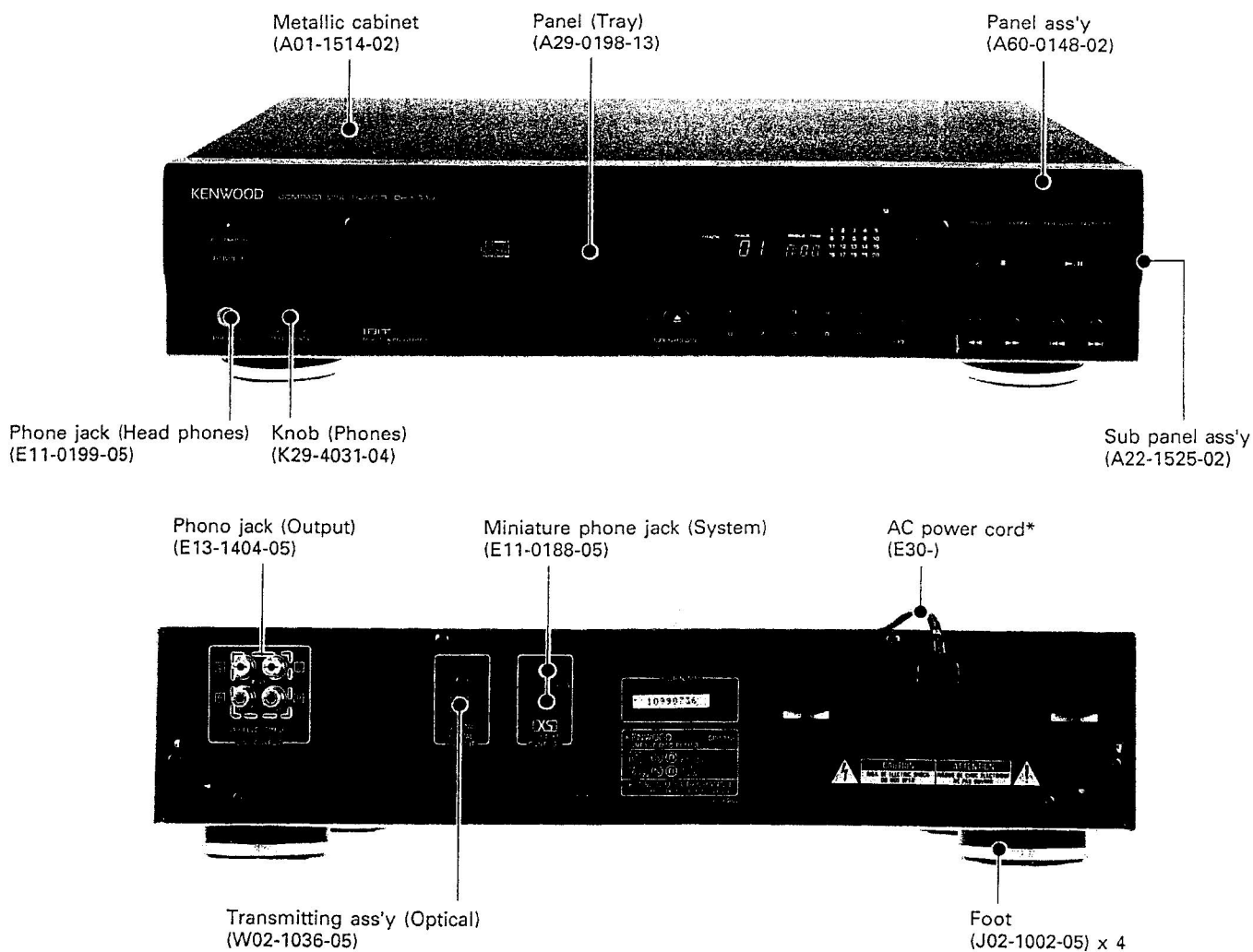
CD PLAYER

DP-5040

SERVICE MANUAL

KENWOOD

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B51-4336-00(O) 2277



* Refer to parts list on page 27.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Note : Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

DP-5040

CONTENTS/ACCESSORIES

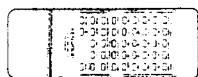
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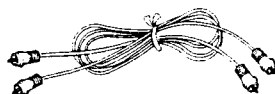
Note : Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

ACCESSORIES

- Remote control unit 1
(A70-0568-05)



- Audio cord 1
(E30-0505-05)



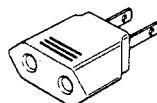
- System control cord 1
(E30-0977-05)



- Batteries ("R6/AA") 2
(-)

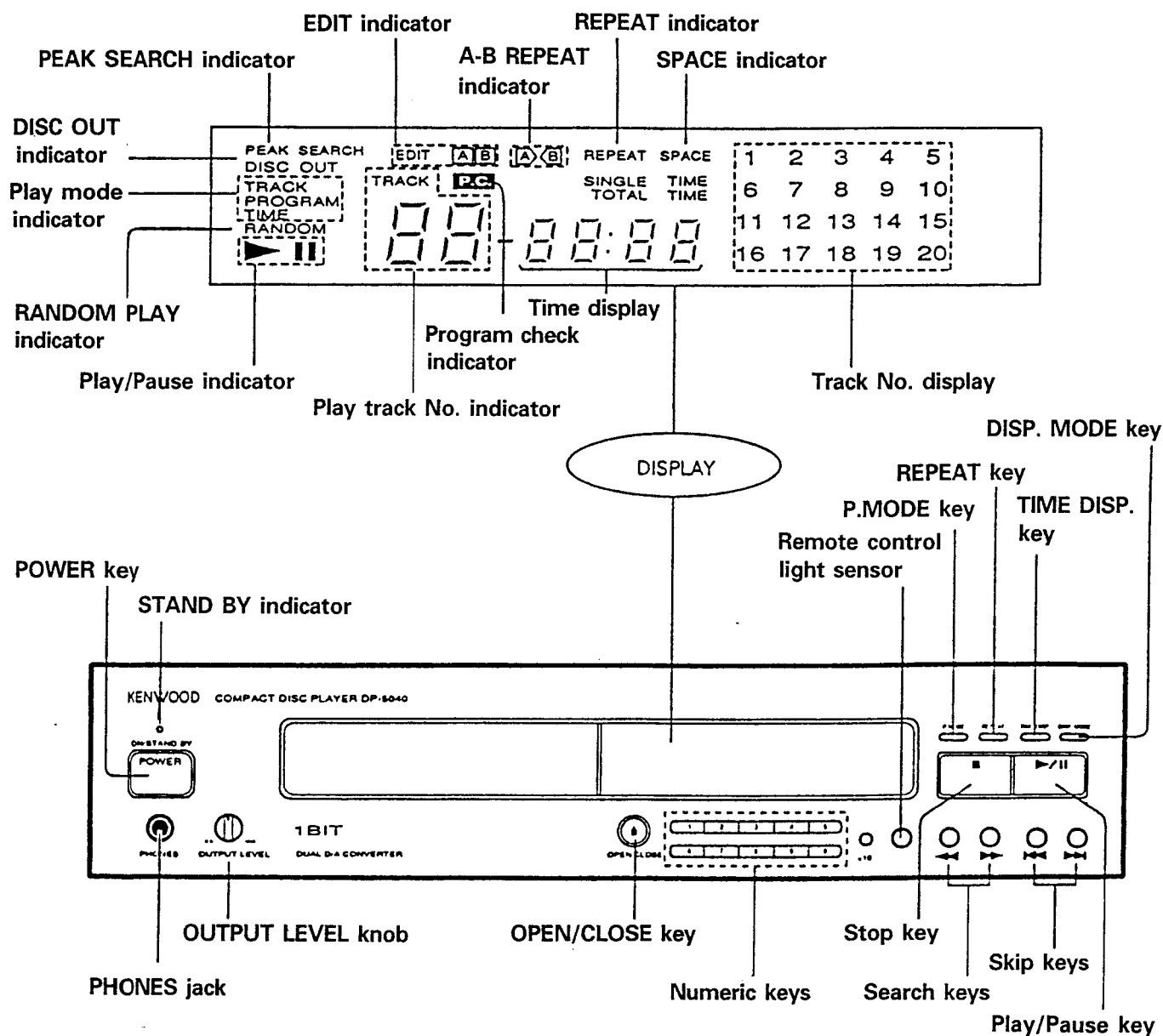


- AC plug adaptor 1
(E03-0115-05)



(Except for some areas)
For the unit with a European AC plug
in areas other than Europe.

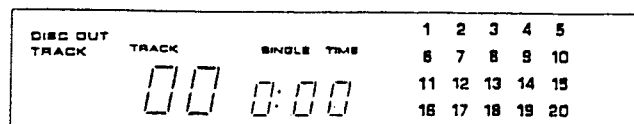
CONTROLS



Caution

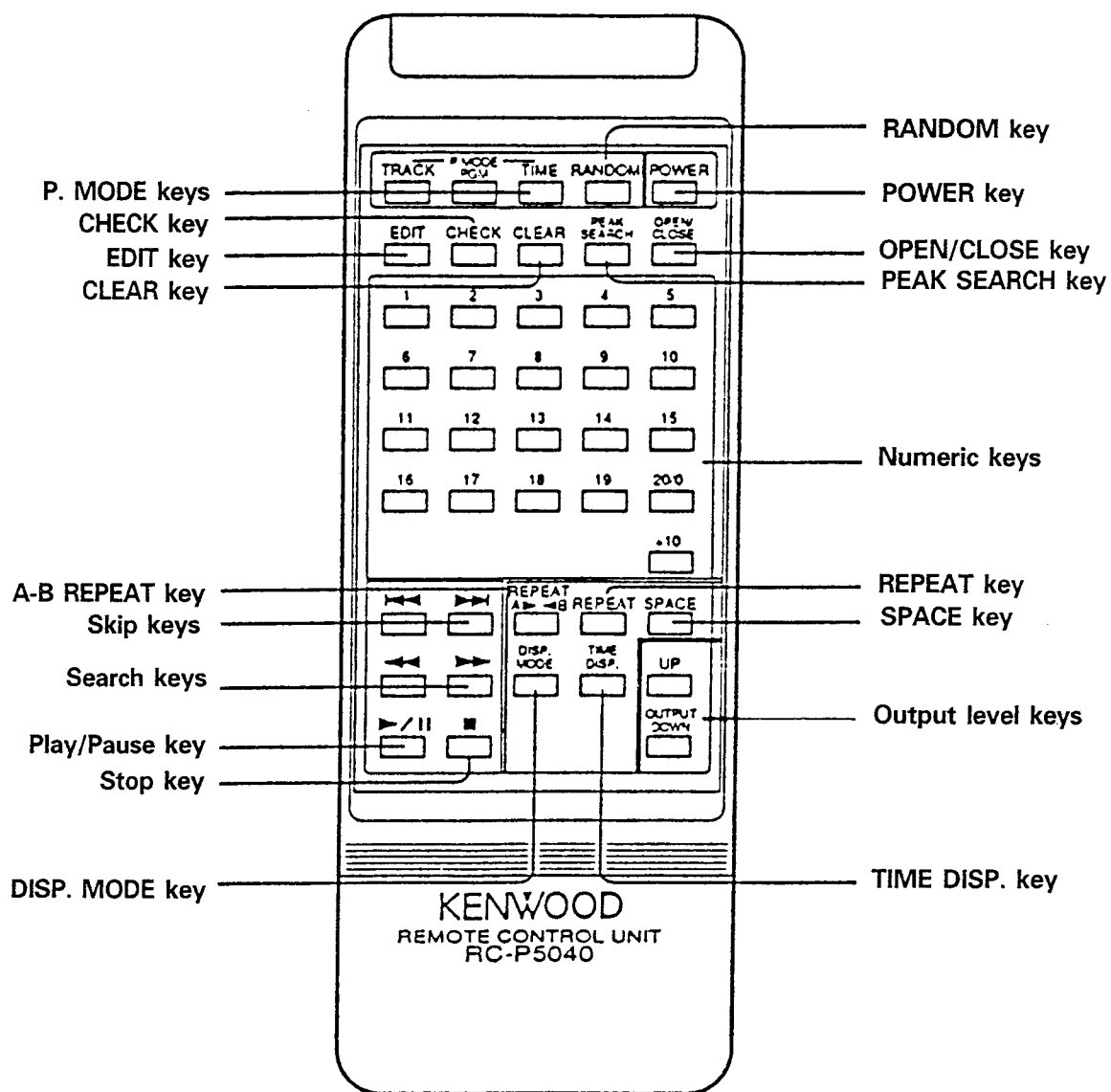
• **Note related to transportation and movement**
Carry out the operations listed below before transporting or moving this unit.

1. After making sure that there is no disc loaded in the unit, turn the POWER switch ON.
2. Wait for several seconds to verify that the display becomes as shown, and then turn the POWER switch back OFF.



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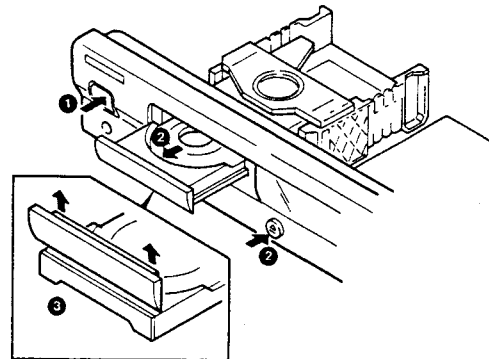
REMOTE CONTROLS



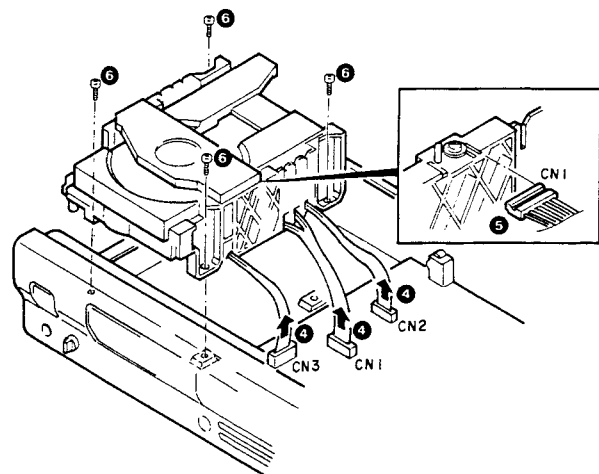
DISASSEMBLY FOR REPAIR

1. How to Disassemble Mechanism

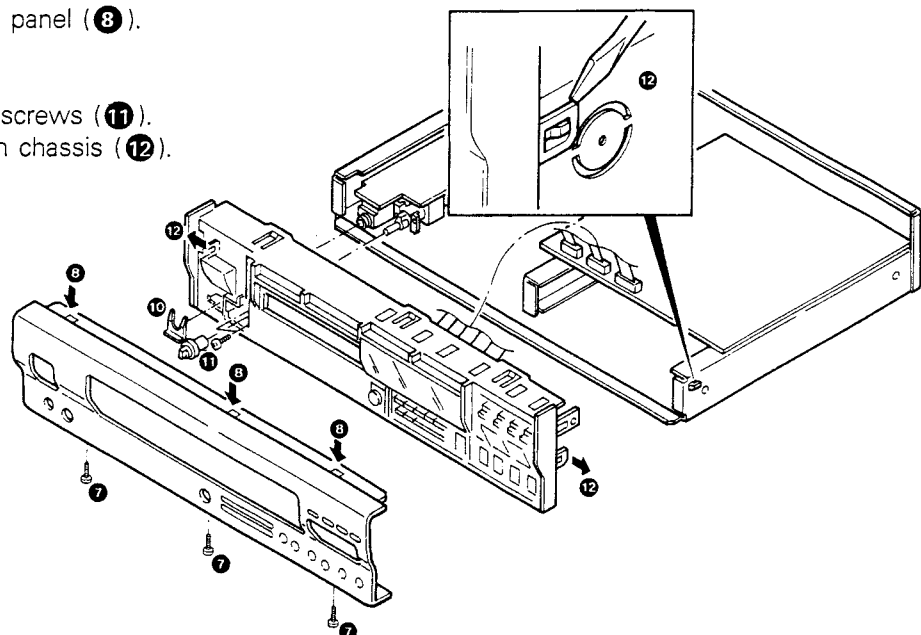
1. Push power switch to ON (①).
2. Push open switch and slide the tray outwards (②).
3. Remove the tray panel (③).



4. Remove 3 connectors (④).
5. Insert connector CN1 to LD short pin (⑤).
6. Remove 4 screws (⑥) and mechanism ass'y.



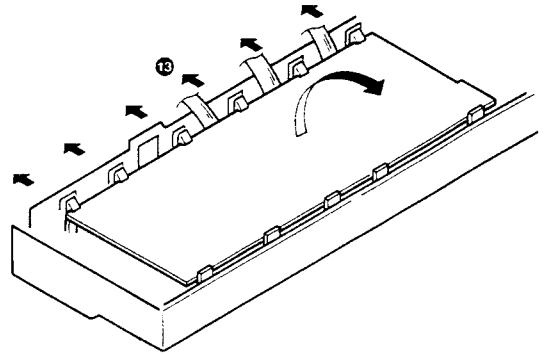
7. Remove 3 screws (⑦).
8. Remove sub panel catches from panel (⑧).
9. Remove 3 connectors (⑨).
10. Remove phones stopper (⑩).
11. Pull phones knob and remove 2 screws (⑪).
12. Remove sub panel catchers from chassis (⑫).



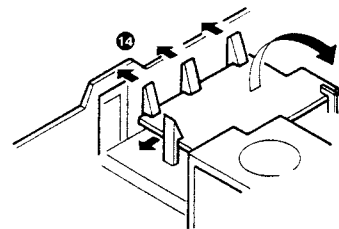
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DISASSEMBLY FOR REPAIR

13. Remove pcb catchers and pcb (13).

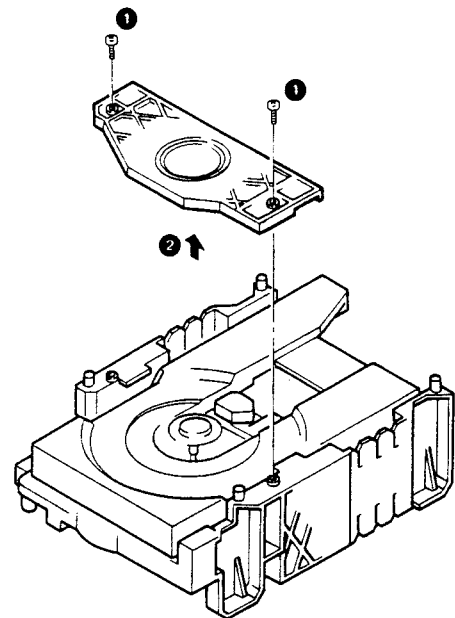


14. Remove pcb catchers and pcb (14).



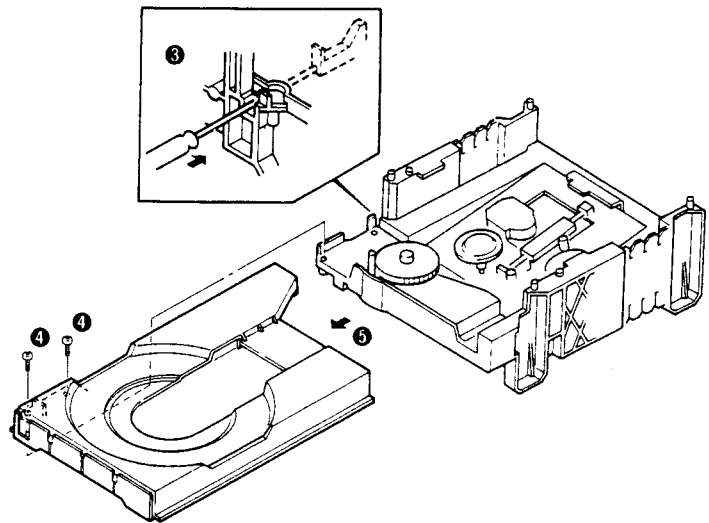
2. How to Remove Tray

1. Remove 2 screws (1).
2. Remove clamber ass'y (2).



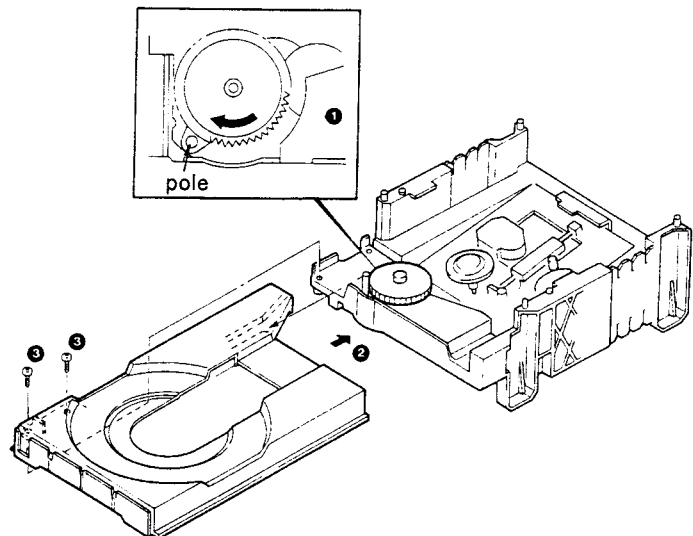
DISASSEMBLY FOR REPAIR

3. Insert the driver to left-side hole of mechanism ass'y and push the slider (3).
4. Remove 2 screws (4).
5. Tray can be pulled out (5).



3. How to Mount Tray

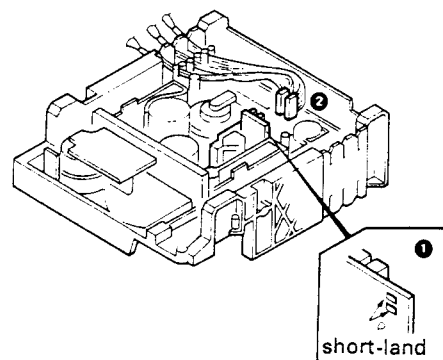
1. Set the pole to fully clockwise (1).
2. Insert the tray to both-side guide on chassis (2).
3. Fix 2 screws (3).



4. How to Replace the Pickup

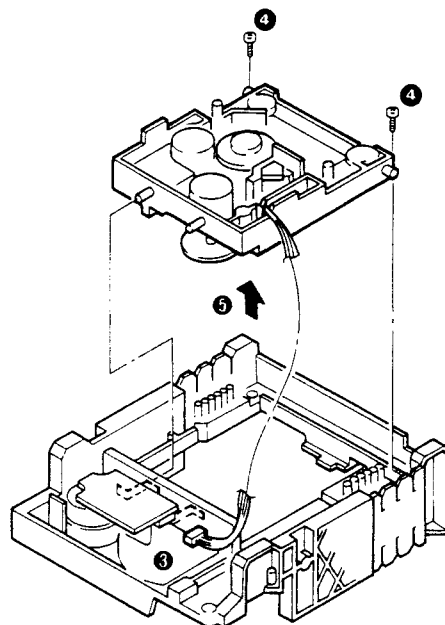
Short the short-land of the pickup before the following procedures (1).

1. Remove 2 connectors (2).

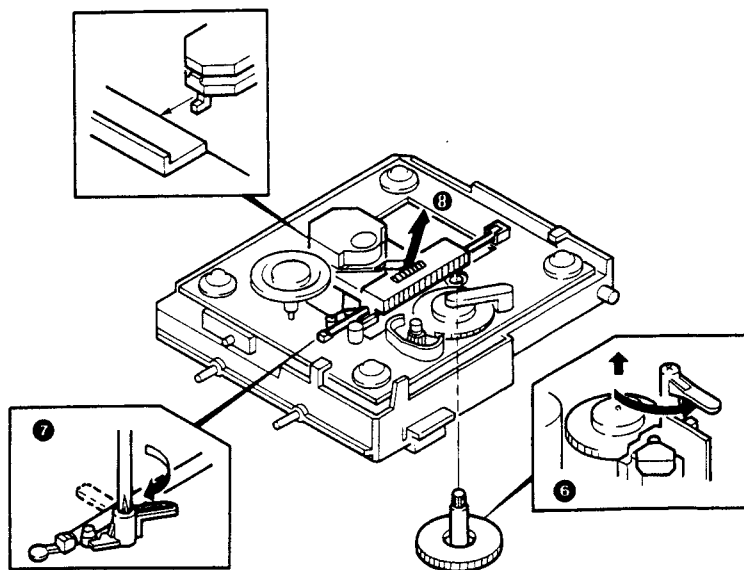


DISASSEMBLY FOR REPAIR

2. Remove the connector (3).
3. Remove 2 screws (4).
4. Remove the mechanism drive (MD) ass'y (5).

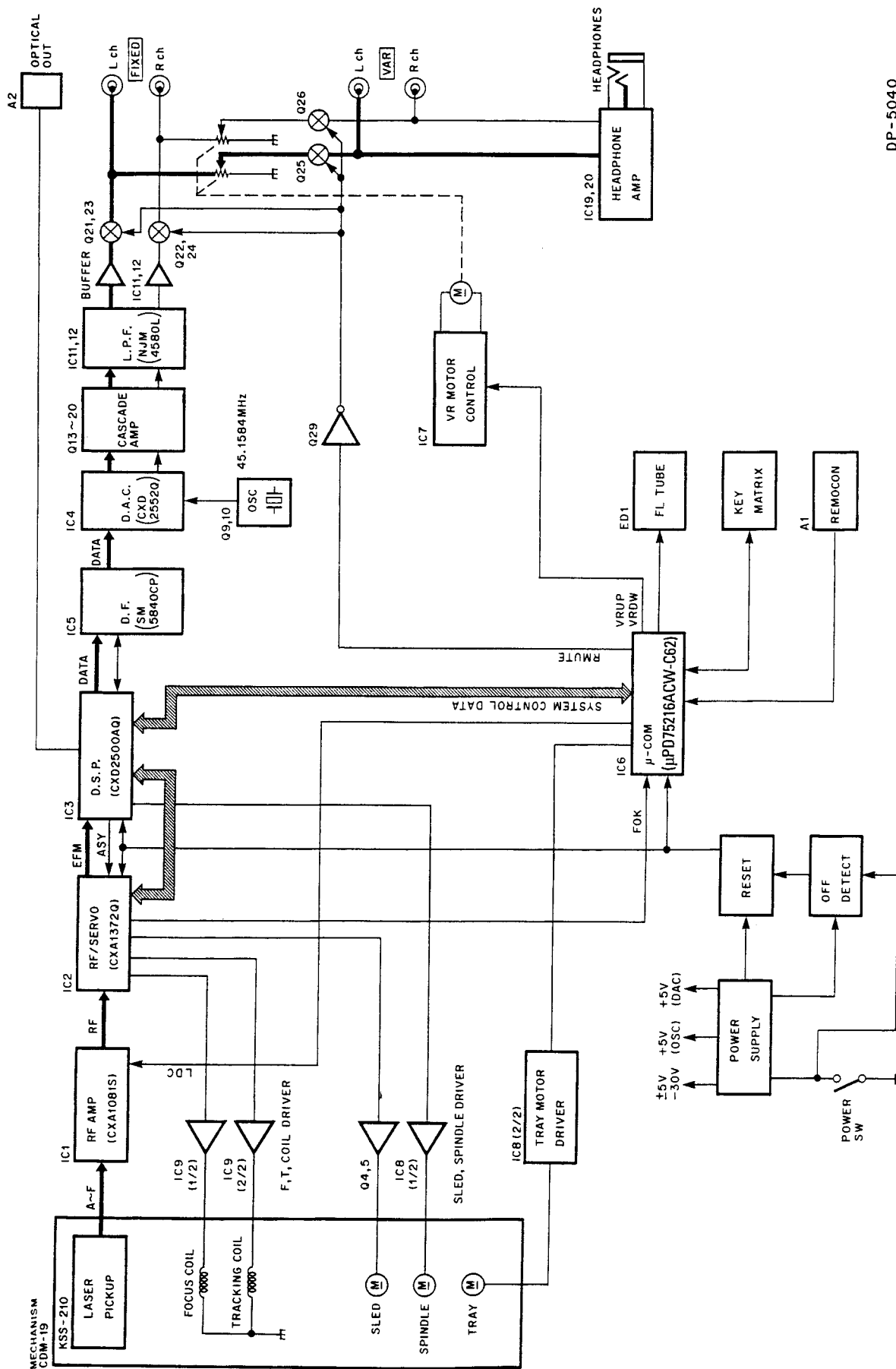


5. Remove stopper and gear (6).
6. Remove rod stopper (7).
7. Remove the pickup ass'y (8).



Note : When mounting the pickup, in the reverse order of disassembly. Unsolder the short land after connecting the flexible wire.

BLOCK DIAGRAM



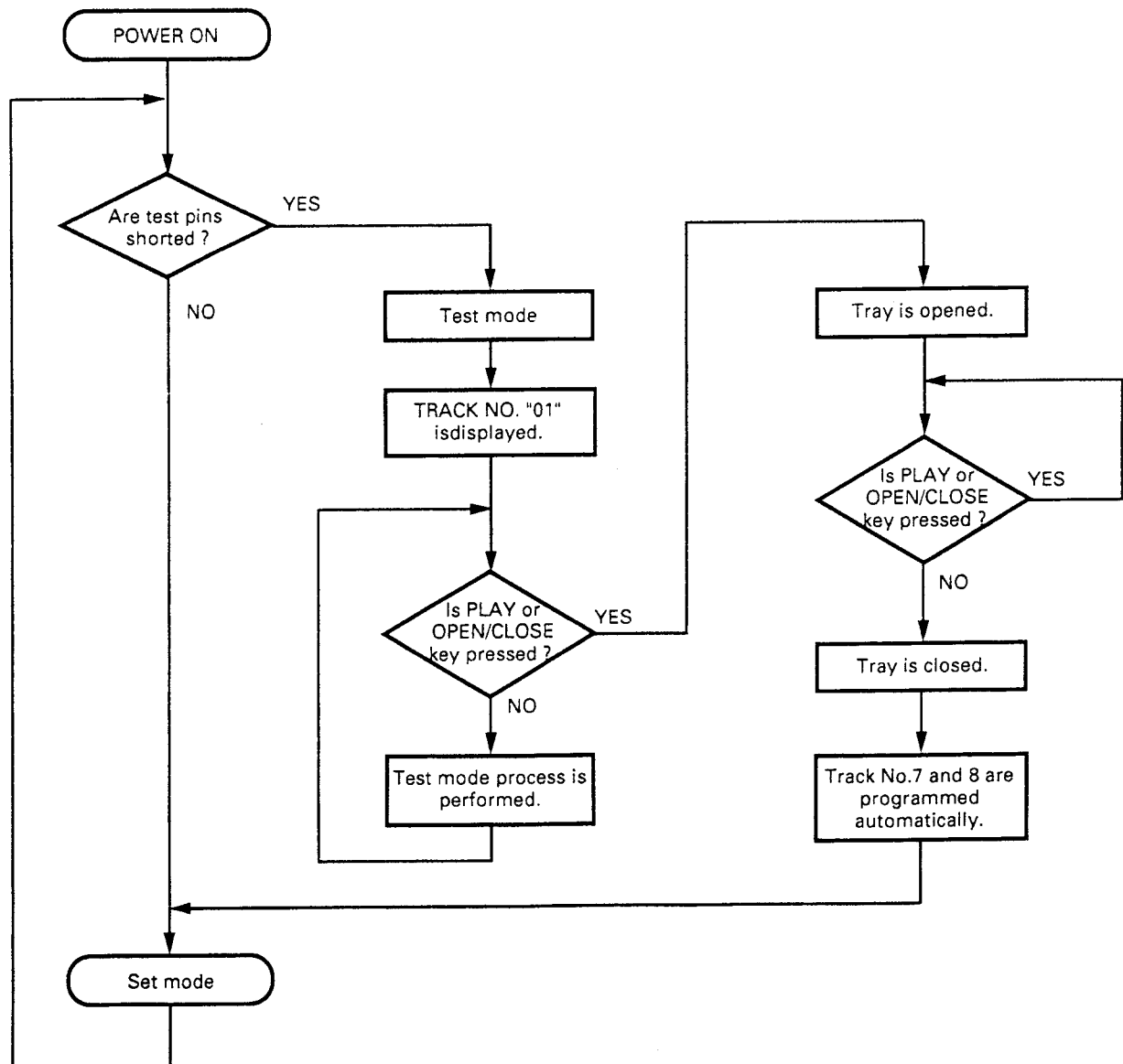
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CIRCUIT DESCRIPTION

1. Test Mode

1-1. Setting the test mode

This microprocessor built this unit can be put to TEST MODE by just short-circuiting the test pins (#3 and #4).



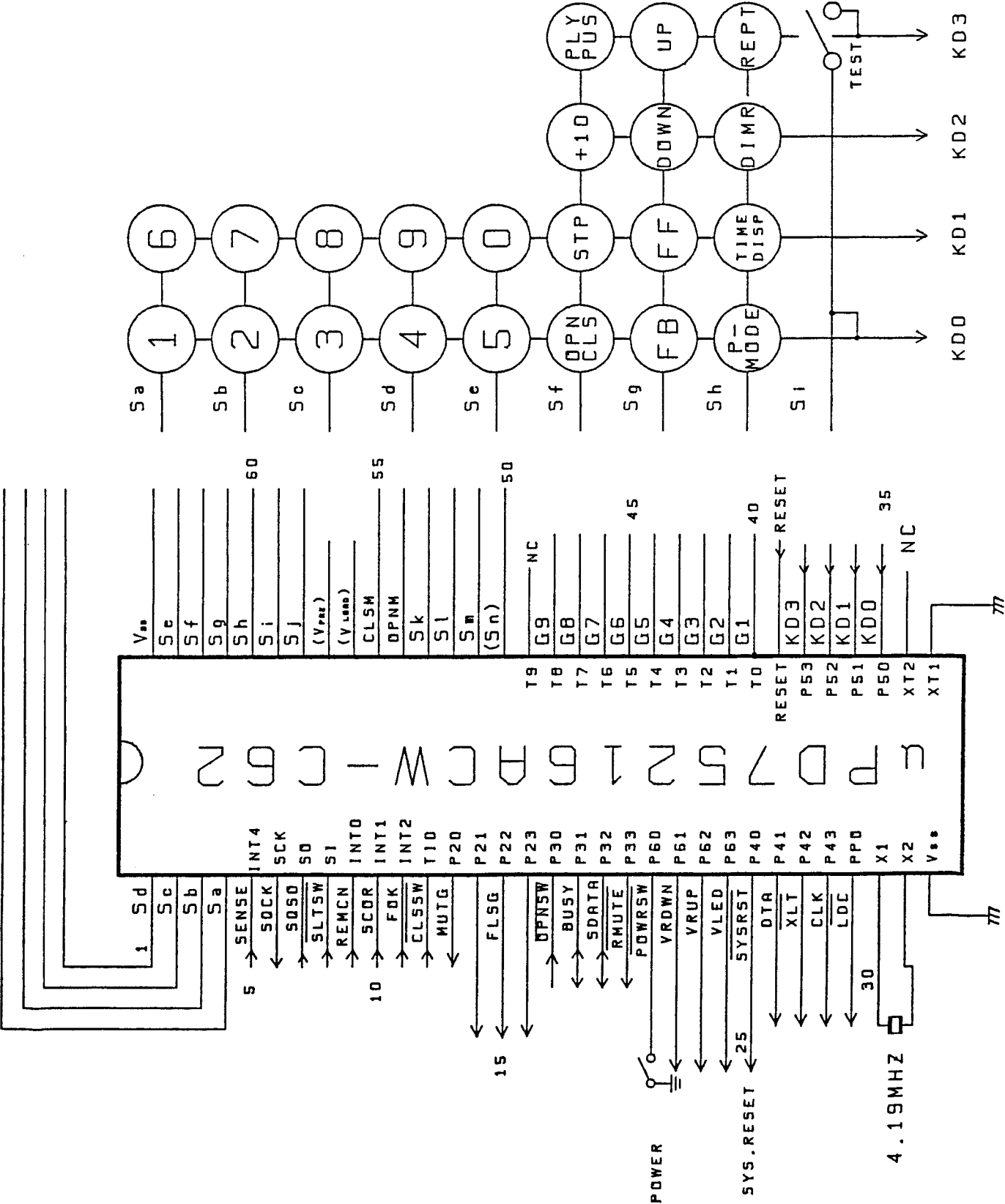
CIRCUIT DESCRIPTION

1-2. Key and functions valid in test mode

No.	Input key	Function	Track No. display
1	PLAY / PAUSE (▶/)	(1) Focusing servoON (2) Tracking servoON (3) Feed servoON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Time ▶ (Play mark) and disc Track No. are displayed.
2	DISPLAY MODE	(1) Focusing servoON (2) Tracking servoOFF (3) Feed servoOFF Pause () is blinked.	TRACK NO. 03
3	STOP (■)	(1) Focusing servoOFF (2) Tracking servoOFF (3) Feed servoOFF	TRACK NO. 01
4	UP (▶▶)	Turns all FL display lamps ON.	TRACK NO. 88
5	DOWN (◀◀)	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88
6	P.MODE	Track No. 7 and 8 are programmed and playbaced. The test mode is canceled.	-
7	OPEN / CLOSE (▲)	When the tray is opened then closed in test mode. Track No. 7 and 8 are programmed and set is in STOP mode. The test mode is canceled.	-
8	FF (▶▶)	In the STOP mode, moves the pickup slightly toward the position of disc. The test mode is available in this condition.	-
9	FB (◀◀)	In the STOP mode, moves the pickup slightly toward the position of disc. If turn on start limit switch, the pickup stops to move.	-

CIRCUIT DESCRIPTION

2. Microprocessor : μ PD75216ACW-C62 (IC6 : X32-2112-70)
2-1. Pin connection



CIRCUIT DESCRIPTION

2-2. Pin function

Pin No.	Pin name	I/O	Function
1~4	Sd~Sa	O	FL segment control terminals (also used for key scan signal).
5	SENSE	I	Signal detection terminal for SENSE signal from processor and servo ICs.
6	SQCK	O	Q data read clock output terminal.
7	SQSO	I	Q data input terminal.
8	SLTSW	I	Start limit switch (L : sw on).
9	REMCN	I	Remote control input terminal.
10	SCOR	I	Sub-code frame sync detection signal input terminal.
11	FOK	I	Input terminal for FOK signal from RF amp (focus OK : "H").
12	CLSSW	I	Tray close-switch (L : sw on).
13	MUTG	O	Digital mute signal to CXD2500 (H : mute on).
14	—	O	Not used.
15	FLSG	O	Display control (H : display off).
16	—	O	Not used.
17	OPNSW	O	Tray open switch (L : tray open).
18	BUSY	I/O	Busy signal input/output terminal.
19	SDATA	I/O	Serial data signal input/output terminal.
20	RMUTE	O	Really mute signal (L : mute on).
21	POWRSW	—	Power key switch input terminal (L : key is pressed).
22	VRDWN	O	Headphone volume control (H : vol. down).
23	VRUP	O	Headphone volume control (H : vol. down).
24	VLED	O	Headphone volume control (LED blink : volume knob is turning).
25	SYSRST	O	System reset signal (L : reset).
26	DTA	O	Data output terminal to CXD2500.
27	XLT	O	Data latch output terminal to CXD2500.
28	CLK	O	Clock output terminal to send data to CXD2500.
29	LDC	O	Laser diode control (L : on, H : off).
30	X1	I	Input terminal of system clock (4.19MHz).
31	X2	I	Input terminal of system clock (4.19MHz).
32	Vss	—	GND.
33	XT1	—	Vss.
34	XT2	—	Open.
35~38	KD0~KD3	I	Key data input terminal.
39	RESET	I	Reset input terminal (active "L").
40~48	G1~9	O	FL digit control terminals.
49	T9	—	N.C.
50	Sn	O	Not used.
51~53	Sm~Sk	O	FL segments control terminals.
54	OPNM	O	Output terminal of tray-open signal.
55	CLSM	O	Output terminal of tray-close signal.
56	VLOAD	—	FL driver power supply.
57	VPRE	—	FL pre-driver power supply.
58~63	Sj~Se	O	FL segment control terminals.
64	VDD	—	Power supply.

ADJUSTMENT

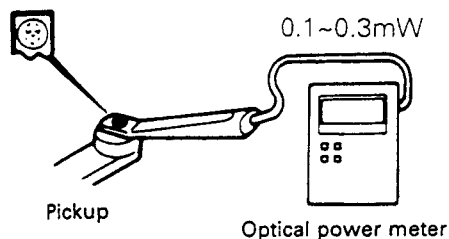
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
1	LASER POWER	—	Set the sesor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode. Press the "DISPLAY MODE" key to check that the display is "03".	—	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN4-1) CH2: TE (CN4-6)	Load disc and set to test mode. Confirm the display is "03".	TE BALANCE VR1	Symmetry between upper and lower or DC=0±0.05V	(c)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN4-1) CH2: TE (CN4-6)	Press the PLAY key. Confirm that the display is "05".	FE BALANCE VR2	Optimum eye pattern	(d)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 100mVrms to CN4 pin 2-3.	Connect a LPF to CN4 pin 2-3 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR3	Two VTVMs should read the same value.	(e)
5	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 100mVrms to CN4 pin 5-6.	Connect a LPF to CN4 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR4	Two VTVMs should read the same value.	(e)

(Note) Type 4 disc: SONY YDS-18 Test Disc or equivalent.

LPF: Around 47kohms+390pF or so.

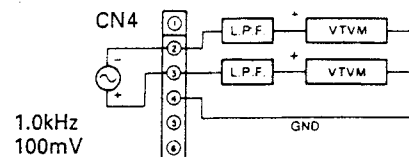
Step 1-5 are in Test Mode.

(a) Laser Power

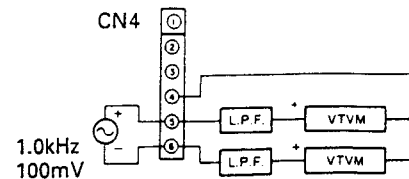


(e) Focus Gain and Tracking Gain Adj.

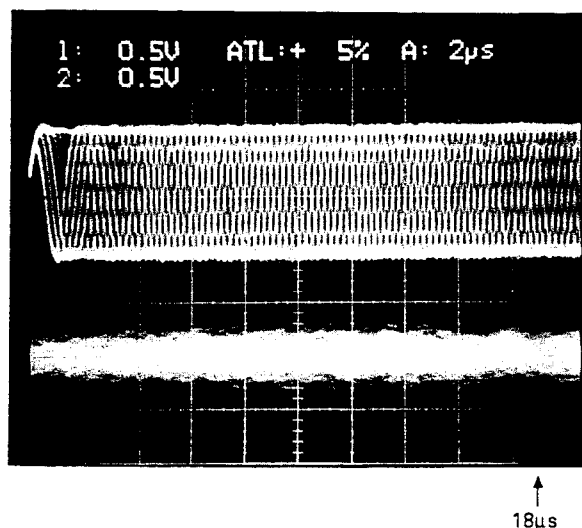
Focus gain Adj.



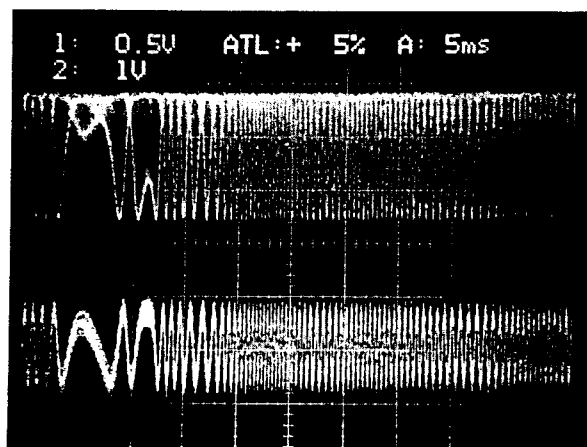
Tracking gain Adj.



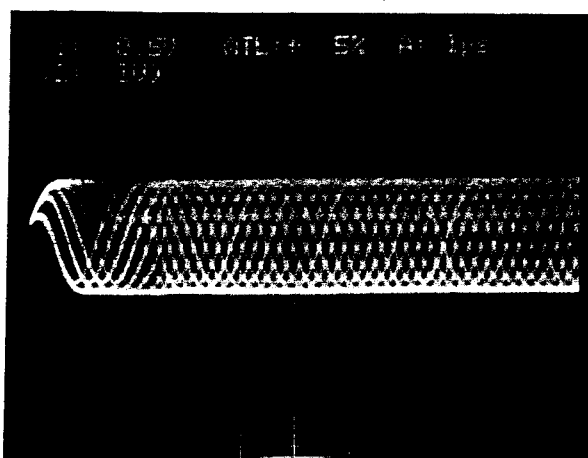
ADJUSTMENT



- RFsignal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18 μ s after RF signal, in the form of a projection.

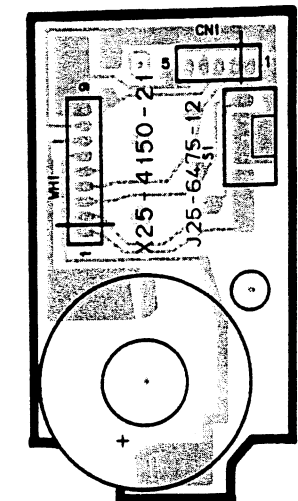
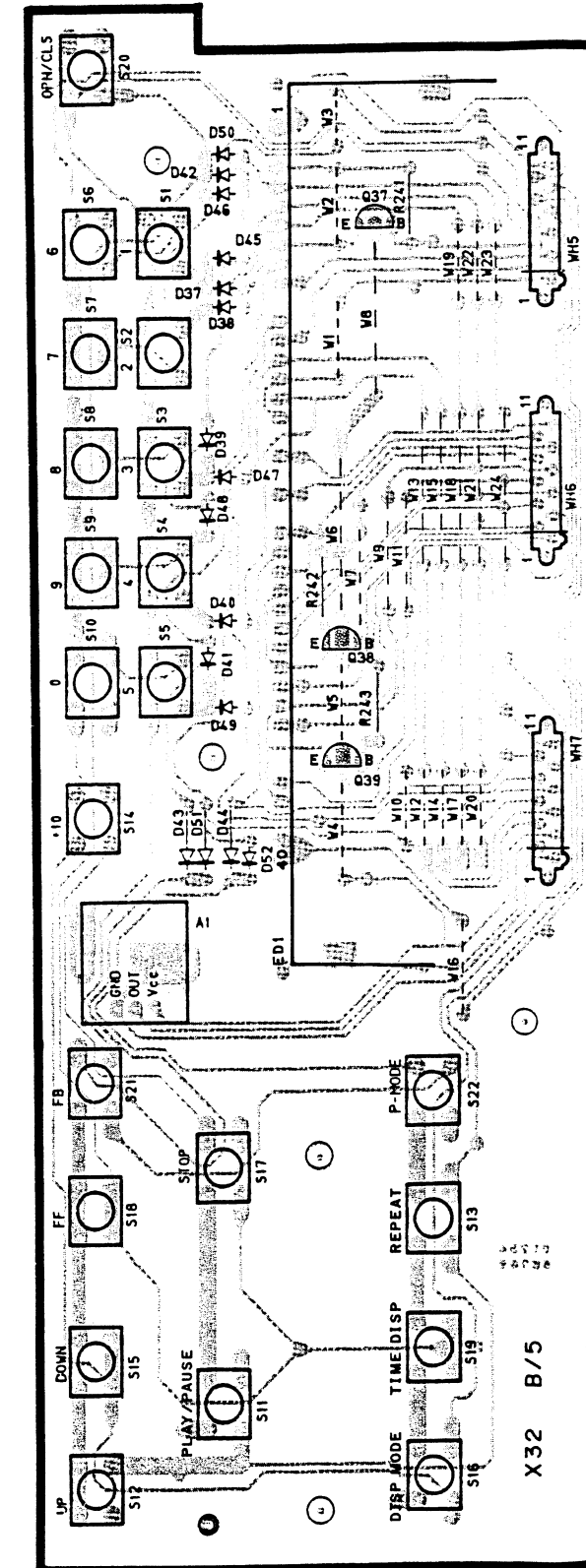


- RF signal and T.Error signal in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical upper and lower or DC 0V. (VR1)

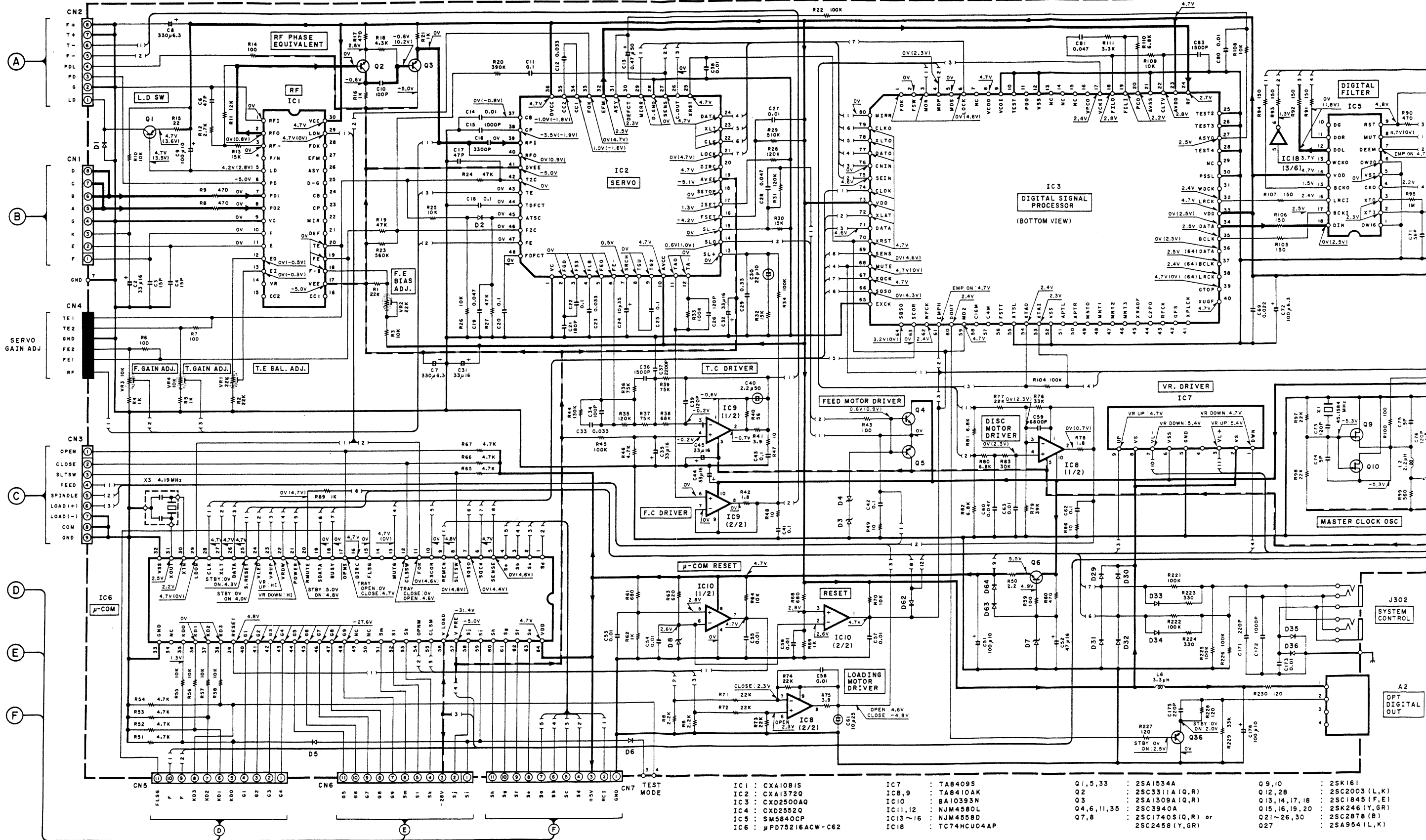


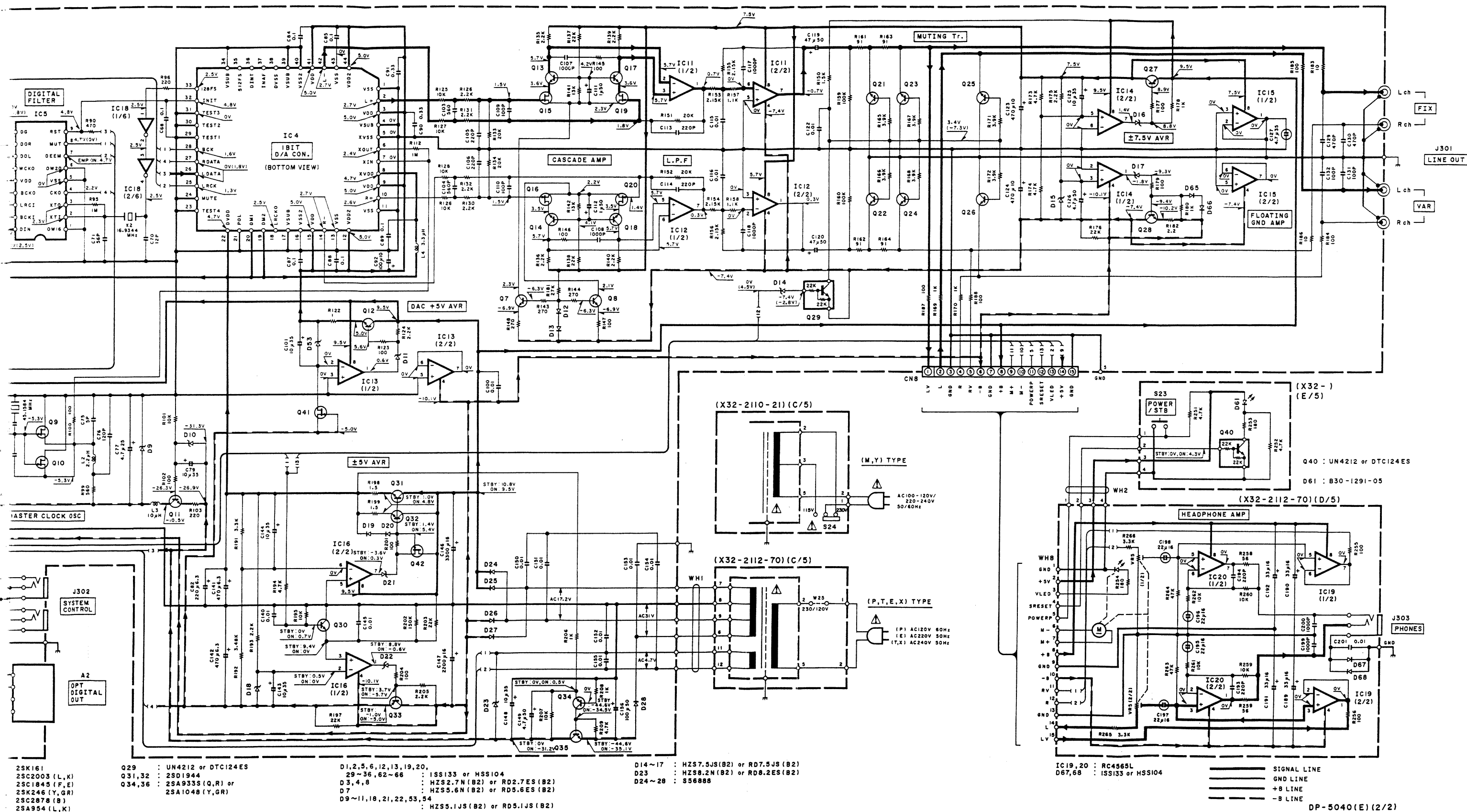
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points upper and lower the center shall also be displayed clearly.

PC BOARD (COMPONENT SIDE VIEW)

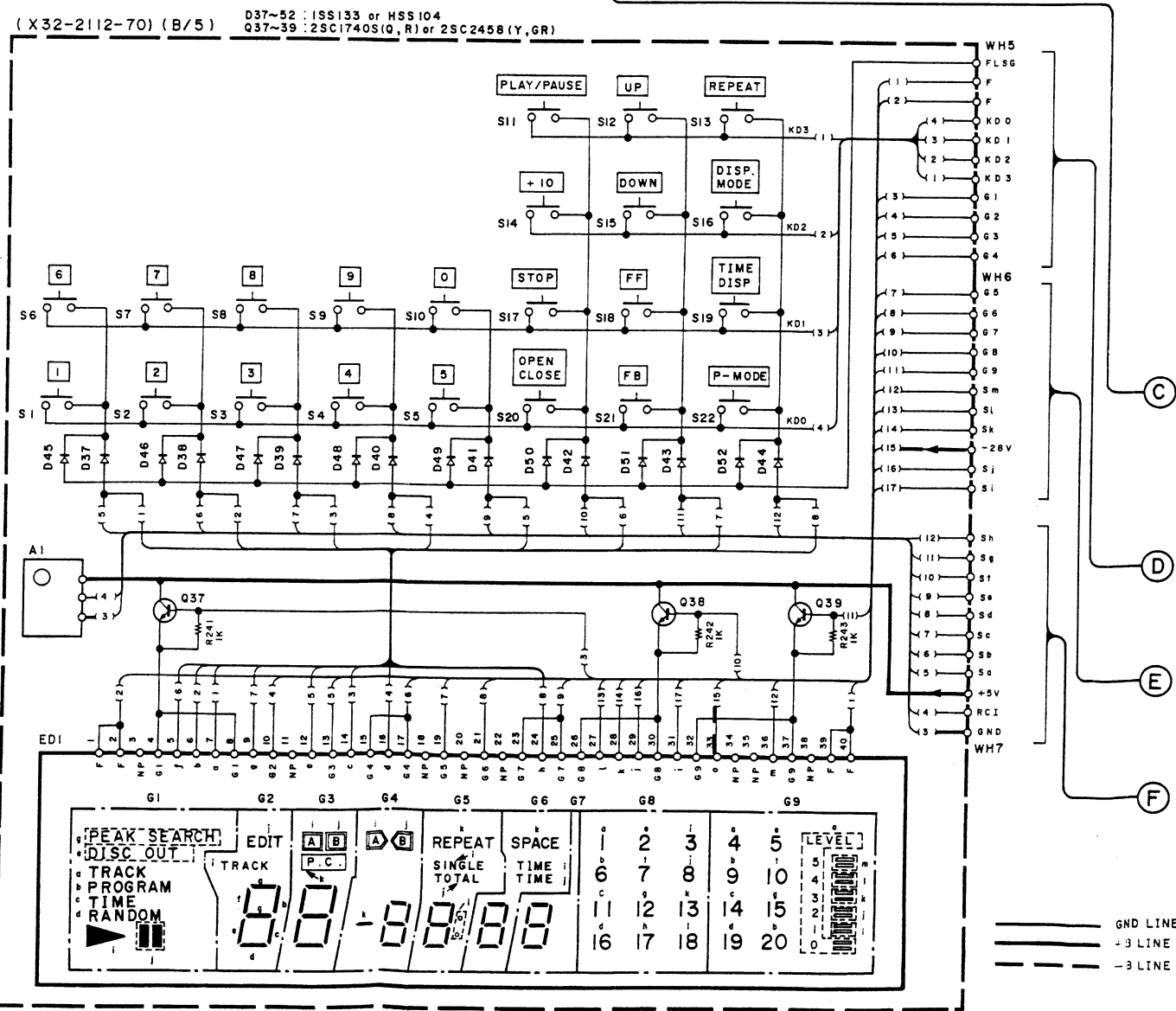
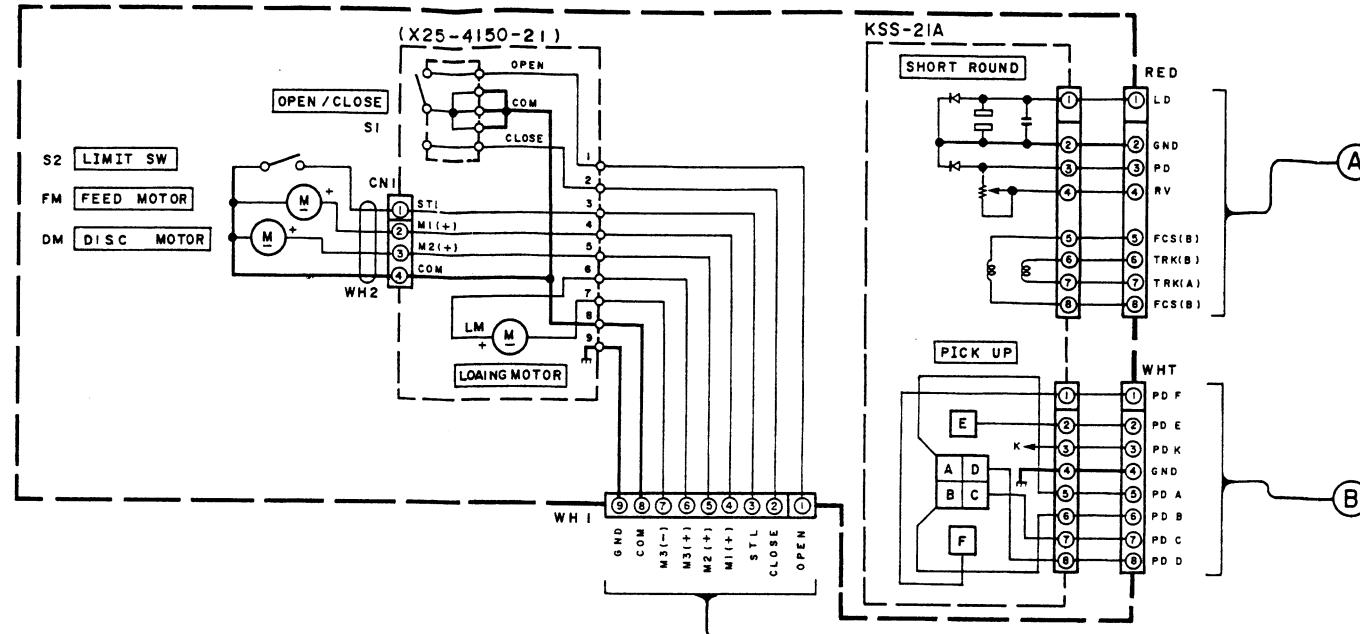


(X32-2112-70) (A/5)





CDM-19
(X92-1600-10)

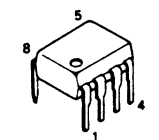


DP-5040 (E) (1/2)

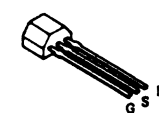
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2SC2878



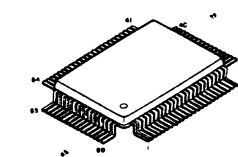
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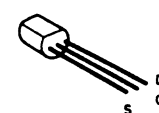
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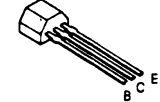


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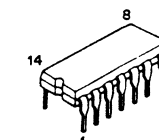


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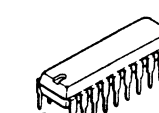
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2SC2458



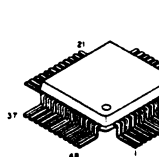
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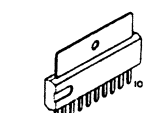
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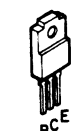
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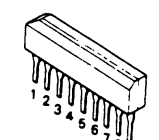
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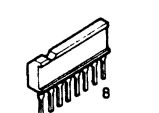
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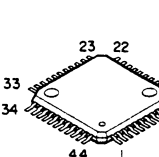
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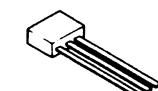
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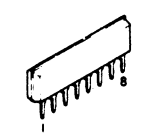
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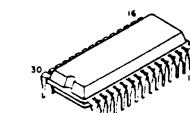
UN4212
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2SC3311A



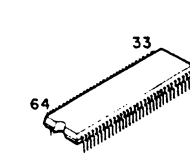
2SK246



CXA1081S



μPD75216ACW-C62



• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units. DC voltage shows at STOP condition after pressing power sw. () means PLAY condition.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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Y22-2711-00

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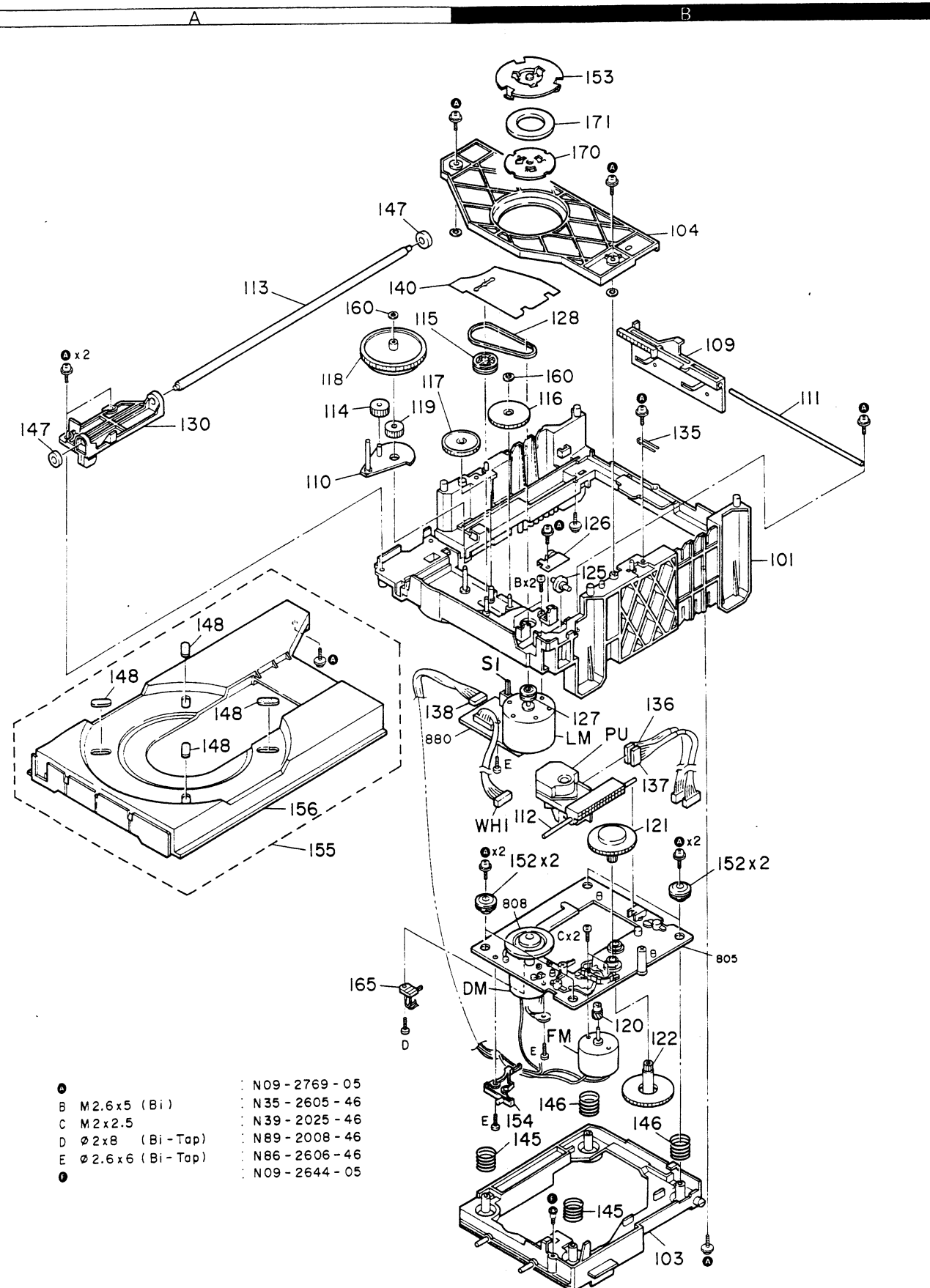
7



DP-5040

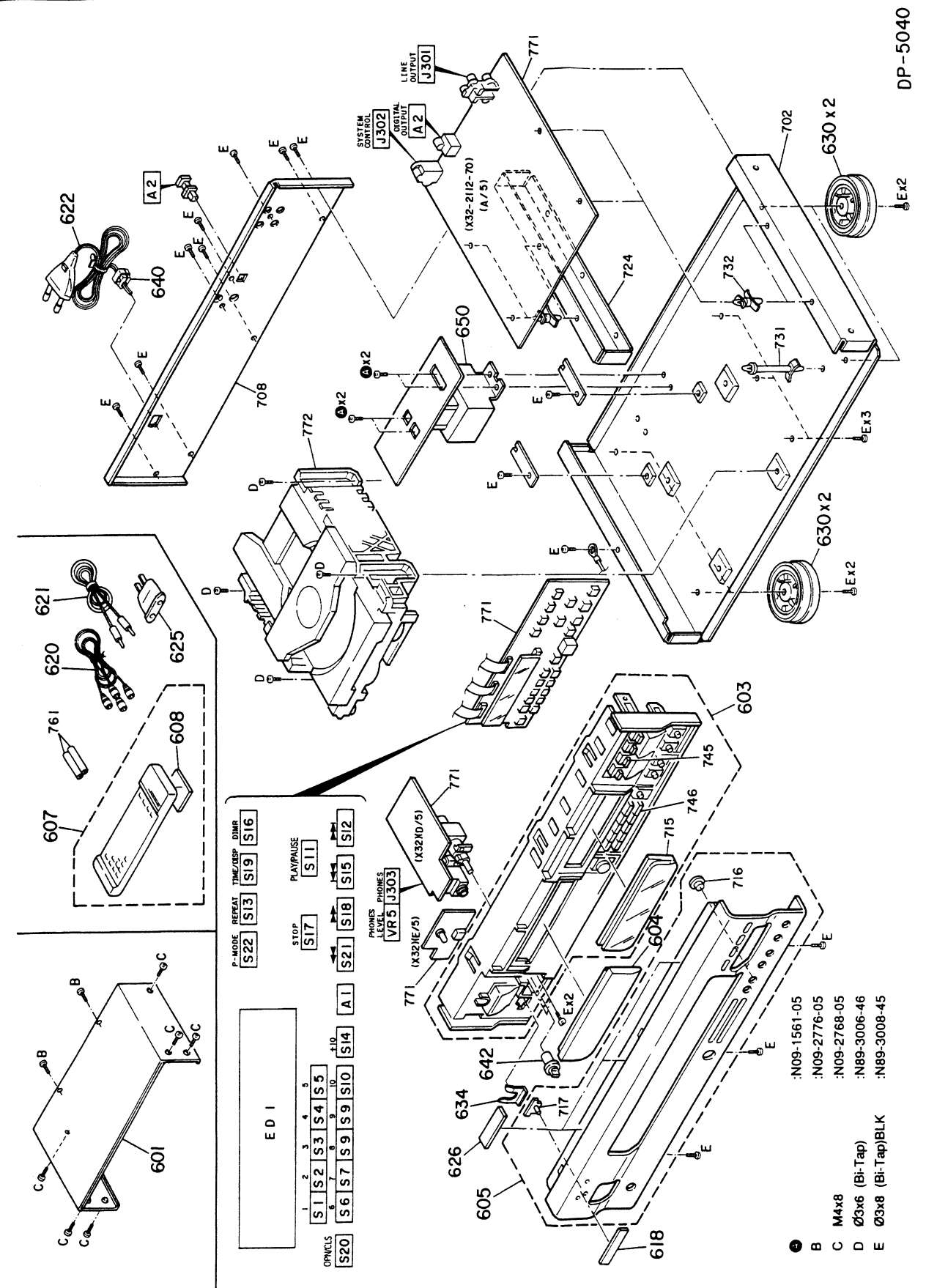
DP-5040

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
 Parts without Parts No. are not supplied.
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.
 Teile ohne Parts No. werden nicht geliefert.

1
* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
DP-5040					
601	1C	A01-1514-02	METALLIC CABINET		
603	2D	A22-1525-02	SUB PANEL ASSY		
604	2C	A29-0198-13	PANEL (TRAY)		
605	2C	A60-0148-02	PANEL ASSY		
607	1D	A70-0568-05	REMOTE CONTROLLER ASSY		
608	1D	A09-0078-08	BATTERY COVER		
618	2C	B43-0287-04	KENWOOD BADGE		
-	-	B46-0094-03	WARRANTY CARD	Y	
-	-	B46-0095-03	WARRANTY CARD	Y	
-	-	B46-0096-23	WARRANTY CARD	Y	
-	-	B46-0121-13	WARRANTY CARD	Y	
-	-	B46-0122-23	WARRANTY CARD	Y	
-	-	B46-0143-13	WARRANTY CARD	Y	
-	-	B60-0637-00	INSTRUCTION MANUAL (ENGLISH)	PE	
-	-	B60-0638-00	INSTRUCTION MANUAL (FRENCH)	PE	
-	-	B60-0639-00	INSTRUCTION MANUAL (G.D.I.)	PE	
-	-	B60-0679-00	INSTRUCTION MANUAL (CHINESE)	M	
-	-	B60-0702-00	INSTRUCTION MANUAL (SPANISH)	M	
620	1D	E30-0505-05	AUDIO CORD (AUDIO)		
621	1D	E30-0977-05	CORD WITH PLUG (SYSTEM)		
622	1E	E30-2273-05	AC POWER CORD	Y	
622	1E	E30-2275-05	AC POWER CORD	X	
622	1E	E30-2276-05	AC POWER CORD	T	
622	1E	E30-2277-05	AC POWER CORD	M	
622	1E	E30-2423-05	AC POWER CORD	ME	
625	1D	E03-0115-05	AC PLUG ADAPTER	P	
626	1C	G11-0155-14	SOFT TAPE (40X9X2)	M	
-	-	H10-5248-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5249-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H20-0554-04	PROTECTION COVER	M	
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)	PYMX	
-	-	H25-0289-04	PROTECTION BAG (850X400X0.05)	PYX	
-	-	H25-0651-04	PROTECTION BAG (0232)	T	
-	-	H25-0665-04	PROTECTION BAG (0289)	T	
-	-	H50-0178-04	ITEM CARTON CASE	PYXTE	
-	-	H50-0258-04	ITEM CARTON CASE	M	
630	2D, 2E	J02-1002-05	FOOT		
634	1C	J21-3324-05	JACK MOUNTING HARDWARE		
640	1E	J42-0083-05	POWER CORD BUSHING		
-	-	J42-0083-05	WIRE CLAMPER		
642	2C	K29-4031-04	KN08 (PHONES)		
650	1E	L07-0172-05	POWER TRANSFORMER	P	
650	1E	L07-0173-05	POWER TRANSFORMER	XTE	
650	1E	L07-0174-05	POWER TRANSFORMER	YM	
MECHANISM PCB (X25-4150-21)					
S1		S33-2062-05	LEVER SWITCH (OPEN/CLOSE)		
CONTROL (X32-2112-70)					
D61		B30-1291-05	LED		

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3
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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
C79		CE04LW1V100MCC	ELECTR0		
C80		CK45FF1H103Z	CERAMIC		
C81		CF92FV1H470J	MF		
C82		CF92FV1H470J	ELECTR0		
C83		CF92FV1H152J	MF		
C84		CF92FV1H104J	MF		
C85		CF92FV1H104J	MF		
C87		CF92FV1H333J	MF		
C90		CF92FV1H333J	MF		
C92		CE04LW1A101MCC	ELECTR0		
C99		CK45FF1H103Z	CERAMIC		
C100		CE04LW1V100MCC	ELECTR0		
C101		CF92FV1H102K	MF		
C103, 104		CF92FV1H221J	MF		
C105, 106		CF92FV1H221J	MF		
C107, 108		CF92FV1H102J	MF		
C109, 110		CF92FV1H681J	MF		
C111, 112		CE04LW1H100MCC	ELECTR0		
C113, 114		CF92FV1H221K	MF		
C115, 116		CF92FV1H103J	MF		
C117, 118		CF92FV1H102J	MF		
C119, 120		CE04LW1H470MCC	ELECTR0		
C123, 124		CE04LW1A171MCC	ELECTR0		
C125		CE04LW1V100MCC	ELECTR0		
C126		CE04LW1H470MCC	ELECTR0		
C127		C90-1892-05	ELECTR0		
C129, 130		CF92FV1H471J	MF		
C131, 132		CF92FV1H101K	MF		
C140		CK45FF1H103Z	CERAMIC		
C141, 142		CE04LW1A171MCC	ELECTR0		
C143, 144		CE04LW1V100MCC	ELECTR0		
C145		CK45FF1H103Z	CERAMIC		
C146		CE04LW1C332MCC	ELECTR0		
C147		CE04LW1C222MCC	ELECTR0		
C148		CE04LW1V100MCC	ELECTR0		
C149		CE04LW1H470MCC	ELECTR0		
C150-155		CK45FF1H103Z	CERAMIC		
C156		CE04LW1H101MCC	ELECTR0		
C171		CE04FSL1H221J	CERAMIC		
C172		CK45FF1H102K	CERAMIC		
C173		CK45FF1H103Z	CERAMIC		
C175		CF92FV1H221K	MF		
C176		CE04LW1A101MCC	ELECTR0		
C189-192		CE04LW1C330MCC	ELECTR0		
C193, 194		CF92FV1H221K	MF		
C195-198		CE04LW1C220MCC	ELECTR0		
C199, 200		CF92FV1H102J	MF		
C201		CK45FF1H103Z	CERAMIC		
J301	1E	B13-1404-05	PHONE JACK (OUTPUT)		
J302	1E	E11-0188-05	MINIATURE PHONE JACK (SYSTEM)		
J303	1C	E11-0199-05	PHONE JACK (HEAD PHONES)		
-	-	J19-3196-04	HOLDER		
L2		L40-2291-17	SMALL FIXED INDUCTOR(100H,K)		
L3		L40-1001-17	SMALL FIXED INDUCTOR		
L4		L40-3391-17	SMALL FIXED INDUCTOR		

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
C2		CE04LW1C330MCC	ELECTR0		
C3		CE04FSL1H150J	CERAMIC		
C6		CC45FSL1H470J	CERAMIC		
C7		CE04LW0J331MCC	ELECTR0		
C9		CE04LW1A101MCC	ELECTR0		
C10		CF92FV1H101K	MF		
C11		CF92FV1H104J	MF		
C12		CF92FV1H333J	MF		
C13		CE04LW1H47MCC	ELECTR0		
C14		CF92FV1H103J	MF		
C15		CK45FF1H102K	CERAMIC		
C16		CF92FV1H682J	MF		
C17		CC45FSL1H470J	CERAMIC		
C18		CF92FV1H104J	MF		
C19		CF92FV1H473J	MF		
C20		CF92FV1H104J	MF		
C21		CC45FSL1H181J	CERAMIC		
C22		CF92FV1H104J	MF		
C23		CF92FV1H333J	MF		
C24		CE04LW1V100MCC	ELECTR0		
C25		CF92FV1H104J	MF		
C26		CC45FSL1H121J	CERAMIC		
C27		CK45FF1H103Z	CERAMIC		
C28		CF92FV1H473J	MF		
C29		CF92FV1H334J	MF		
C30		C90-1353-05	NP-ELEC		
C31		CE04LW1C330MCC	ELECTR0		
C33		CF92FV1H823J	MF		
C34		CC45FSL1H101J	CERAMIC		
C35		CE04LW1C330MCC	ELECTR0		
C36		CF92FV1H152J	MF		
C37		CF92FV1H221J	MF		
C38		CK45FF1H103Z	CERAMIC		
C39		CC45FSL1H121J	CERAMIC		
C40		C90-1350-05	NP-ELEC		
C41		CF92FV1H104J	MF		
C44		C90-1915-05	ELECTR0		
C51		CE04LW1A101MCC	ELECTR0		
C52		CE04LW1C470MCC	ELECTR0		
C53		CK45FF1H103Z	CERAMIC		
C59		CF92FV1H682J	MF		
C60		CF92FV1H473J	MF		
C61		C90-1332-05	NP-ELEC		
C62		CF92FV1H104J	MF		
C63		CF92FV1H103J	MF		
C68		CF92FV1H104J	MF		
C69		CK45FF1H223Z	CERAMIC		
C70		CC45FSL1H120J	CERAMIC		
C71		CC45FSL1H560J	CERAMIC		
C72		C90-1910-05	ELECTR0		
C73		CF92FV1H121K	MF		
C74		CC45FSL1H1050C	CERAMIC		
C76		CC45FSL1H121J	CERAMIC		
C77		C90-1919-05	ELECTR0		
C78		CF92FV1H181K	MF		

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
L6		L40-3391-17	SMALL FIXED INDUCTOR		
X1		L77-2105-05	CRYSTAL RESONATOR (45.1584MHZ)		
X2		L77-1187-05	CRYSTAL RESONATOR (16.9344MHZ)		
X3		L77-0267-05	RESONATOR (4.19MHZ)		
R153-156		RN14BK2C2151F	RN		
R157, 158		RN14BK2C1101F	RN		
R192		RN14BK2C3481F	RN		
VR1		R12-3686-05	TRIMMING POT. (22K)		
VR3		R12-3686-05	TRIMMING POT. (10K)		
VRS		R29-1006-05	POTENTIOMETER PHONES LEVEL		
S1		S40-1064-05	PUSH SWITCH		
S24		S31-2131-05	SLIDE SWITCH (POWER TYPE)		
D1		HSS104	DIODE		
D2		LSS133	DIODE		
D3		HSS104	ZENER DIODE		
D4		R02-7ES(B2)	ZENER DIODE		
D5		HSS104	DIODE		
D6		LSS133	DIODE		
D7		HSS104	ZENER DIODE		
D8		R05-6ES(B2)	ZENER DIODE		
D9		R02-7ES(B2)	ZENER DIODE		
D9		HZ55-1S(B2)	ZENER DIODE		
D9		R05-1JS(B2)	ZENER DIODE		
D12		HSS104	DIODE		
D12		LSS133	DIODE		
D15		HZ57-5S(B2)	ZENER DIODE		
D15		R07-5JS(B2)	ZENER DIODE		
D18		HZ55-1S(B2)	ZENER DIODE		
D19		R05-1JS(B2)	ZENER DIODE		
D19		HSS104	DIODE		
D21		HZ55-1S(B2)	ZENER DIODE		
D21		R05-1JS(B2)	ZENER DIODE		
D23		HZ58-2N(B2)	ZENER DIODE		
D23		R08-2ES(B2)	ZENER DIODE		
D24		S5688B	DIODE		
D29		HSS104	DIODE		
D29		LSS133	ZENER DIODE		
D53		HZ55-1S(B2)	ZENER DIODE		
D53		R05-1JS(B2)	ZENER DIODE		
D62		HSS104	DIODE		
D62		HZ55-1S(B2)	ZENER DIODE		
D62		R05-1JS(B2)	ZENER DIODE		
D62		S5688B	DIODE		
D62		LSS133	DIODE		
D62		ICX2552Q	FLUORESCENT INDICATOR TUBE		
D62		ICX1090C	IC(RF AMP)		
D62		ICX1372Q	IC(CD RF SERV0)		
D62		ICX2500AQ	IC(SIGNAL PROCESSOR)		
D62		ICX2552Q	IC(D/A CONVERTER)		
D62		ICX5840CP	IC(DIGITAL FILTER)		
D62		ICX2552Q	IC(MICROPROCESSOR)		
D62		ICX2552Q	IC(MOTOR CONTROL)		
D62		ICX2552Q	IC(POWER OP AMP)		
D62		ICX2552Q	IC(DUAL COMPARATOR)		

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IC11, 12			NJM4580L	IC (OP AMP X2)		
IC13-16			NJM4558D	IC (CMOS INVERTER)		
IC18			TC74HC004AP	IC (CMOS AMP)		
IC19, 20			RC4565C	IC (OP AMP)		
Q1			2SA1534A	TRANSISTOR		
Q2			2SC3311A (Q,R)	TRANSISTOR		
Q3			2SA1309A (Q,R)	TRANSISTOR		
Q4			2SC3940A	TRANSISTOR		
Q5			2SA1534A	TRANSISTOR		
Q6			2SC3940A	TRANSISTOR		
Q7 , 8			2SC1740S (Q,R)	TRANSISTOR		
Q7 , 8			2SC2458 (Y, GR)	TRANSISTOR		
Q9 , 10			2SK161	FET		
Q11			2SC3940A	TRANSISTOR		
Q12			2SC2003 (L, K)	TRANSISTOR		
Q13 , 14			2SC1845 (F, E)	TRANSISTOR		
Q15 , 16			2SK246 (Y, GR)	FET		
Q17 , 18			2SC1845 (F, E)	TRANSISTOR		
Q19 , 20			2SK246 (Y, GR)	FET		
Q21 -26			2SC2878 (B)	TRANSISTOR		
Q27			2SA954 (L, K)	TRANSISTOR		
Q28			2SC2003 (L, K)	DIGITAL TRANSISTOR		
Q29			DTC124ES	TRANSISTOR		
Q30			UN4212	DIGITAL TRANSISTOR		
Q31 , 32			2SC2878 (B)	TRANSISTOR		
Q33			2SD1944	TRANSISTOR		
Q34			2SA1534A	TRANSISTOR		
Q34			2SA1048 (Y, GR)	TRANSISTOR		
Q34			2SA933S (Q, R)	TRANSISTOR		
Q35			2SC3940A	TRANSISTOR		
Q36			2SA1048 (Y, GR)	TRANSISTOR		
Q37			2SA933S (Q, R)	TRANSISTOR		
Q37 -39			2SC1740S (Q, R)	TRANSISTOR		
Q37 -39			2SC2458 (Y, GR)	TRANSISTOR		
Q40			DTC124ES	DIGITAL TRANSISTOR		
Q40			UN4212	TRANSISTOR		
Q41 , 42			2SK246 (Y, GR)	FET		
A1	1C		W02-0975-05	ELECTRIC CIRCUIT MODULE (REMOTE)		
A2	1E		W02-1036-05	TRANSMITTING ASSY (OPTICAL)		
MECHANISM (X92-1600-10)						
101	2B	*	A10-2798-22	CHASSIS ASSY		
103	3B	*	A11-0695-15	SUB CHASSIS (FRAME)		
104	1B		A11-0686-03	SUB CHASSIS (CLAMP)		
109	1B		D10-2479-03	SLIDER		
110	2A		D10-2481-04	ARM ASSY		
111	1B		D10-2489-04	ROD (SLIDER)		
112	2B	*	D10-2490-04	ROD (DISC UP)		
113	1A	*	D10-2491-04	ROD (RETAINER)		
114	1A		D13-0744-04	GEAR		
115	1A		D13-0779-04	GEAR (PULLEY)		
116	1B		D13-0780-04	GEAR (INTERMEDIATE)		
117	1A		D13-0890-04	GEAR (IDLER)		
118	1A		D13-0891-03	GEAR (MAIN)		

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PARTS LIST

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119	1A		D13-0892-04	GEAR		
120	3B		D13-0894-05	GEAR (FM)		
121	2B		D13-0895-05	GEAR (INTERMEDIATE)		
122	3B		D13-0896-05	GEAR (FEED)		
125	2B		D14-0324-04	ROLLER		
126	2B		D14-0325-04	ROLLER ASSY		
127	2B		D15-0295-04	MOTOR PULLEY		
128	1B	*	D16-0309-03	BELT		
130	1A		D23-0267-03	RETAINER		
135	1B		E23-0343-04	TERMINAL		
136	2B		E35-0282-05	WIRING HARNESS		
137	2B		E35-0286-05	WIRING HARNESS		
138	2A	*	E31-7868-15	WIRING HARNESS (SP)		
140	1A	*	F19-1027-04	BLIND PLATE		
145	3B	*	G01-3326-14	COMPRESSION SPRING (FRONT)		
146	3B	*	G01-3327-14	COMPRESSION SPRING (REAR)		
147	1A	*	G11-2038-04	CUSHION		
148	2A	*	G16-0766-04	SHEET		
152	2B	*	J02-1058-15	INSULATOR		
153	1B		J11-0168-03	CLAMPER		
154	3B		J19-3335-05	BRACKET		
155	2A	*	J99-0088-13	TRAY ASSY		
156	2A	*	J99-0089-01	TRAY		
160	1A, 1B		N19-0366-04	FLAT WASHER		
165	3A		S33-1022-05	LEVER SWITCH		
170	1B		T50-1055-04	YÖKE		
171	1B		T99-0503-15	MAGNET		
DM	3B		A11-0733-05	SUB CHASSIS ASSY		
FM	3B		T42-0532-05	DC MOTOR (FEED)		
LM	2B		T42-0530-05	DC MOTOR (LOADING)		
PU	2B		T25-0011-05	OPTICAL PICKUP HEAD		

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DP-5040

SPECIFICATIONS

[Format]

System Compact disc digital audio system
Laser Semiconductor laser
Number of channels 2 channels
Playing rotation 200rpm~500rpm (CLV)

[D/A convertors]

D/A conversion 1bit
Over sampling 8fs (352.8kHz)

[Audio]

Frequency response 2Hz~20kHz
Signal to noise ratio More than 110dB
Dynamic range More than 97dB
Total harmonic distortion
..... Less than 0.0025% (at 1kHz)

Channel separation More than 103dB (at 1kHz)
Wow & Flutter Unmeasurable Limit
Output level / Impedance
Fixed 2V / 1kΩ
Variable 0~2V / 2kΩ
Digital output
Optical
..... -15dBm~-21dBm (Wave length 660nm)
Headphone output 20mW (16Ω)

[General]

Power consumption 14W
Dimensions W : 440mm (17-5 / 16")
H : 118mm (4-5 / 8")
D : 314mm (12-3 / 8")
Weight (Net) 4.2kg (90.2lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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